

UNITED STATES PARTMENT OF COMMERCE **Patent and Trademark Office**

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ATTORNEY DOCKÉTNO. APPLICATION NO. FIRST NAMED INVENTOR FILING DATE MI22-1171

09/292.132

04/14/99

AKRAM

MM92/1024 021567 WELLS ST JOHN ROBERTS GREGORY AND MATKIN **SUITE 1300** 601 W FIRST AVENUE SPOKANE WA 99201-3828

EXAMINER MULPURI.S

ART UNIT PAPER NUMBER

2812

DATE MAILED: 10/24/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

PTO-90C (Rev. 2/95)

1- File Copy

Office Action Summary

Application No. 09/292,132 Applicant

Akram et al

Examiner

S. Mulpuri

Group Art Unit 2812

X Responsive to communication(s) filed on 8/10/00, 8/16/00	·
☐ This action is FINAL .	
☐ Since this application is in condition for allowance except for for in accordance with the practice under Ex parte Quayle, 1935 (
A shortened statutory period for response to this action is set to e is longer, from the mailing date of this communication. Failure to application to become abandoned. (35 U.S.C. § 133). Extensions 37 CFR 1.136(a).	respond within the period for response will cause the
Disposition of Claims	
	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration.
☐ Claim(s)	
☐ Claims	
Application Papers See the attached Notice of Draftsperson's Patent Drawing F The drawing(s) filed on	is approved disapproved. der 35 U.S.C. § 119(a)-(d). the priority documents have been er) ternational Bureau (PCT Rule 17.2(a)).
Attachment(s) Notice of References Cited, PTO-892 Information Disclosure Statement(s), PTO-1449, Paper Nots Interview Summary, PTO-413 Notice of Draftsperson's Patent Drawing Review, PTO-948 Notice of Informal Patent Application, PTO-152	

Application/Control Number: 09/292132

Art Unit:

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 51-53, 76-77 rejected under 35 U.S.C. 103(a) as being unpatentable over Sugiro in combination with Suzuki or Ngaoaram.

Sugino teaches forming MOSFETs; forming gate oxide provided with chlorine on a silicon substrate, forming gate electrode on gate oxide. Sugino does not mention fluorine. Suzuki or Ngaoram teaches forming gate oxide on a silicon substrate and treating silicon oxide halogen atmosphere, which includes fluorine. It would have been obvious to one of ordinary skill in the art to provide fluorine of gate oxide in the invention of Sugino.

Claims 55-75 are allowed.

Response to the applicant's arguments: Applicant mention that there fluorine in Sugiro. However secondary references Suzuki and Ngaoaram discloses fluorine is suitable for the same purpose, which is halogenation of gate oxide. It is agreed that Pan'525 does not teach exposing

Art Unit:

the gate oxide having center and outwardly opposing edges laterally aligned with edges of the gate.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Mulpuri whose telephone number is (703) 305-5184. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

SAVITRI MULPURI